WHAT IS CLAIMED IS:

1. A method of liquid molding, the method comprising the steps of: providing a mold having a face, a top portion, first and second sides, and first and

5 second ends, the mold having injection ports on both sides and ends;

providing multiple independently fed subsurface inserts;

applying plies to the mold;

attaching fabric end caps onto aluminum mandrels;

sliding braided sleeves over the mandrels;

positioning the mandrels over the bottom portion;

placing braided material along mandrel radius interfaces;

placing the face to the top portion;

attaching root, tip, and slide closure plates to the mold;

inserting the mold into a restraining fixture;

inserting metal wedges into the fixture;

attaching a steel box to the mold and the fixture;

connecting resin injection and vacuum lines to the mold;

injecting degassed resin through heated tubing; and,

activating the inserts.

20

- 2. A method for liquid molding, the method comprising the steps of:
- providing an associated mold;

providing at least one independently fed subsurface insert;

wetting fabric through the mold; and,

activating the at least one insert.

3. The method of claim 2, wherein the method further comprises the

step of:

manually controlling the venting.

	4.	The method of claim 2, wherein the method further comprises the
step of	:	
controlling the venting via a computerized injection and venting process.		

5

5. A composite resin mold, the mold comprising:

a body;

at least one injection port;

at least one resin track; and,

at least one independently fed subsurface insert.

- 6. The mold of claim 5, wherein the mold has multiple injection ports and multiple channels.
- The mold of claim 5, wherein the at least one independently fed subsurface insert is multiple inserts, the mold further comprising:

a top portion;

a face, the inserts being located in vent pockets;

at least one vent;

first, second, third, and fourth side portions; and,

vent openings, the vent openings being of a size to restrict entry of associated fabric.

- 8. The mold of claim 7, wherein the at least one injection port is independently fed.
 - 9. The mold of claim 8, wherein the mold further comprises: an adapter plate; a retaining bolt; and,

an o-ring.

10.	The mold of claim 9, wherein the mold further comprises:
a vent pocket	for receiving the insert, the insert contoured to fit the mold face.

5

- 11. The mold of claim 5, wherein the mold further comprises the resin track being located circumferentially around the venting insert.
- The mold of claim 11, wherein the vent extends upwardly from the resin track.
 - 13. A venting insert for use with liquid infusion molds, the insert comprising:

an independently fed vent;

a resin track, the resin track located substantially circumferentially around the vent; and,

suction means for creating suction.

- 14. The insert of claim 13, wherein the insert further comprises: 20 an injection port opening.
 - 15. The insert of claim 14, wherein the vent is connected to the resin track and the vent extends upwardly from the resin track.
- 25 16. The insert of claim 15, wherein the insert further comprises: o-rings for connecting the insert to an associated mold.
 - 17. The mold of claim 5, wherein the mold further comprises: at least one vent pocket.

- 18. The mold of claim 17, wherein the mold further comprises multiple vent pockets, the vent pockets being inset in the surface of the mold.
- 5 19. The method of claim 2, wherein the method further comprises the steps of:

alternating at least the one independently fed subsurface insert; and, alternating operation of an injection port.

10 L:\1100-1199\1109\0003\PTO\020227.dat.patapp7.doc